FIRST RECORD OF PALAEMON CONCINNUS DANA, 1852 (CRUSTACEA: DECAPODA: PALAEMONIDAE) FROM AUSTRALIA. Memoirs of the Queensland Museum 38(2):622. 1995:- Palaemon concinnus is widely distributed in the Indo-West Pacific region but has not been previously recorded from Australia, despite being known from neighbouring areas such as New Guinea (Holthuis, 1982) and New Caledonia (Holthuis, 1970). Four specimens collected from Palm Island, northeast Queensland by Mr Hamar Midgley in 1977, were found in the unidentified collections of the Queensland Museum. Further material was discovered at the Northern Fisheries Centre, Cairns, after an invitation by Mr Warren Lee Long (Queensland Department of Primary Industries) to examine and identify Crustacea collected during their Johnstone River Catchment Survey. Abbreviations: QM, Queensland Museum; QDPI, Queensland Department of Primary Industries; NEQ, northeast Queensland. All measure-ments are carapace length from the orbit to the posterior margin.

Palaemon concinnus Dana, 1852

Restricted synonymy

Palaemon concinnus Dana, 1852: 26.

Paluemon exilimonus Dana, 1852: 26.

Leander longicarpus Stimpson, 1860: 40.

Palaemon lagdoensis Blanco, 1939: 167, pl.1.

Falaemon (Palaemon) concinnus: Holthuis, 1950: 61, fig.12. Palaemon concinnus: Chace & Bruce, 1993, 40.

Material Examined

QMW14793, 29 ? (12.6, 12.8mm), Palm Is., airport swamp, NEQ, July 1977, S.H. Midgley; QMW16427, 15 (9.2mm), 19 (13.6mm), *Ibid.*; QMW18730, 15 (19.9mm), 19 (6.4mm), Bamboo Ck, Innisfail, NEQ, freshwater tidal reach, silt, fringing rainforest, water clarity high, *Vallisneria*, *Blyxa, Aponogeton*, fallen timber, leaf litter, DO₂ 60% saturation, 1m depth, electrofished, 1992, QDPI Northern Fisheries Centre, Johnstone R. Catchment Survey; QMW19615, 19 (8.1mm), unnamed tributary of Johnstone R., NEQ, 17⁵29.0°S, 146°01.9°E, freshwater, lottc, water temperature 28.2°C, DO₂ 87.0%, turbidity 2.0 NTU. electrofished, 10/4/1992, QDPI Northern Fisheries Centre, Johnstone R.

Remarks

Male specimens examined have a rudimentary appendix interna on the endopod of the first male pleopod, a feature that distinguishes *P. concinnus* from other species of the genus. Other diagnostic features such as the rostrum and antennular flagellae also agree well with published descriptions and figures. Bruce (1987) provided a key to the six species of *Palaemon* previously recorded from Australia - *P. debilis* Dana, 1852; *P. litoreus* (McCulloch, 1909); *P. macrodactylus* Rathbun, 1902; *P. semmelinkii* (de Man, 1881); *P. serenus* (Heller, 1862); and *P. serrifer* (Stimpson, 1860).

This species is recorded in the literature from salt, brackish and freshwater. The Australian records are from coastal lowland fresh waters in the wet tropical region of northeast Queensland.

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